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IMRC

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They Asked Me How I Knew. . . .

Smoke Gets in Your Eyes

They Asked Me How I Knew. . . .

Smog Check Histories of Smoking Vehicles in L.A.

2,589 (gasoline) vehicles from model years 1976-2000 were reported 11/06-3/07

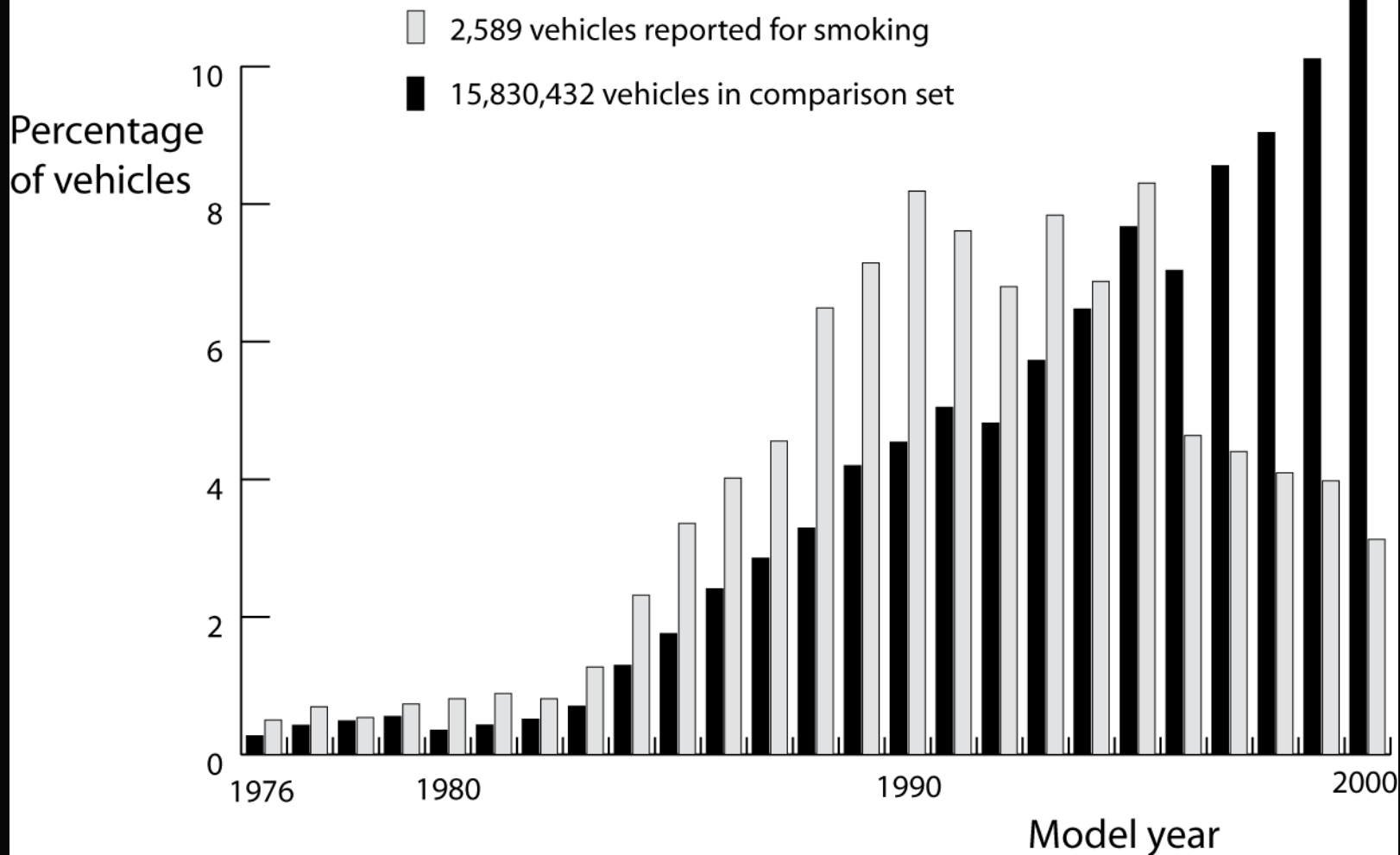
- Do these “smokers” have a high fail rate on their most recent Smog Check?
- Do these “smokers” have histories of repeated failures?
- Do these “smokers” frequently pass Smog Check quickly after a fail?

An Appropriate Comparison Set

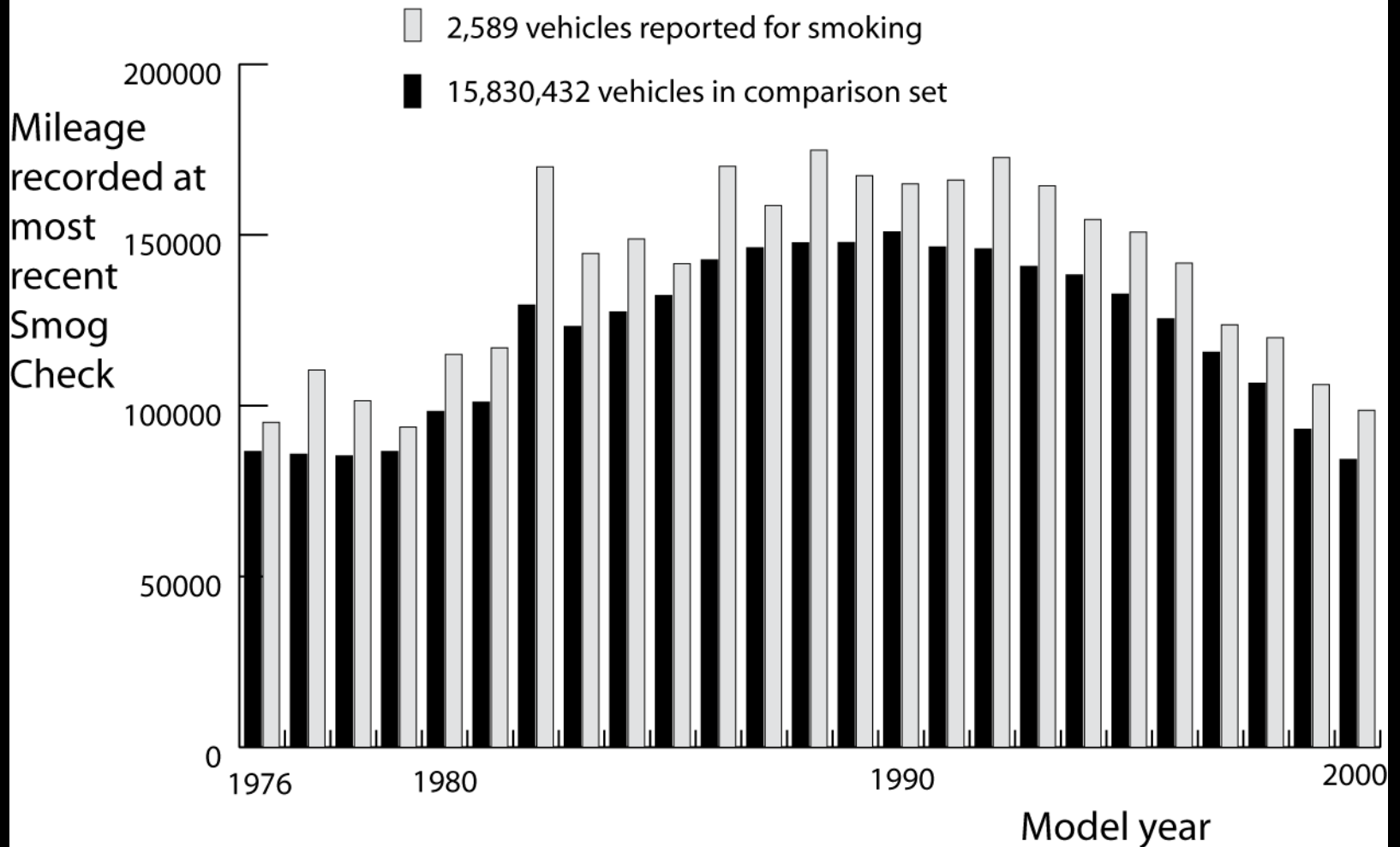
- Model years 1976-2000
- Last test after August 2004
- Not change-of-ownership area
- Not ever tested as a fleet vehicle
- Not a dubious VIN with but one test

15,830,432 vehicles are in comparison set

Age distribution of smokers



Average mileage of smokers



Smog Check Performance of L.A. Smokers

	Comparison group (%)	Smokers (%)
Ever a fail	31.15	54.38
Ever a gross polluter	7.97	20.93
Ever a tamper	2.83	5.79
Ever an emissions fail	21.02	37.89
Ever a visual fail	5.40	4.29
Ever an abort	17.49	26.22

Consistency of Smog Check Performance of L.A. Smokers

	Comparison group (%)	Smokers (%)
Passed in four or more cycles	32.81	26.81
Passed in five or more cycles	15.68	14.60
Failed in two or more cycles	10.09	25.49
Failed in three or more cycles	2.80	8.69
Failed in four or more cycles	0.56	2.09
Pass within 12 hours of fail	8.78	14.45

Performance of L.A. Smokers in Most Recent Smog Check Cycle

	Comparison group (%)	Smokers (%)
Fail [F, G, or T]	16.10	28.16
Gross polluter	3.24	7.57
Tamper	0.91	1.73
Visual fail	0.58	1.02

Last Record within Smog Checks Relative to Day of Smoking Report

	Out of 2,589	F		G	
After smoking report	249	97	39.0%	35	14.1%
Within 2 days either way	34	12	35.3%	3	8.8%
Earlier than 6 months	1,640	431	26.3%	105	6.4%
Earlier than 2.5 years	65	18	27.7%	6	9.2%

History of VIN JM3LV5224N0405920,
CA Plate 4YBK406, a 1992 Mazda MPV,
with 168,861 Miles, Reported Smoking on 11/10/06

08/13/02	RF195169	I (out-of-state)	P
03/08/03	RF195169	C (c-of-owner)	P
07/31/04	TF195169	P (directed)	P
11/10/06	TM242845	P (directed)	P

History of VIN WBSBG932XWEY78772,
CA Plate 4RCJ415, a 1998 BMW 3-Series,
with 61,444 Miles, Reported Smoking on 11/15/06

03/30/01	TC204150	I (out-of-state)	P
01/10/05	RE221873	C (c-of-owner)	P
11/15/06	TM242839	P (directed)	P

History of VIN 3VWRK21G6LM030871,
CA Plate 2VLX329, a 1990 VW Jetta,
with 157,790 Miles, Reported Smoking on 12/05/06

11/11/99	RK163436	C (c-of-owner)	P
11/15/01	TB198164	C (c-of-owner)	P
11/14/03	TD227064	P (directed)	F
11/19/03	TA225999	P (directed)	P
11/19/05	TA225999	P (directed)	P
12/05/06	RL175352	C (c-of-owner)	P

History of VIN JT3GN86R9T0018252,
CA Plate 4SDL080, a 1996 Toyota 4Runner,
with 180,772 Miles, Reported Smoking on 12/21/06

02/20/01	RG096190	I (out-of-state)	P
12/26/02	RM219264	B (biennial)	F
12/29/02	RM208915	B (biennial)	P
01/15/05	TB209495	P (directed)	P
12/21/06	TH229391	P (directed)	P

History of VIN 1G2NE12T1XM916245,
CA Plate 4HAD631, a 1999 Pontiac Grand Am,
with 98,713 Miles, Reported Smoking on 01/02/07

07/22/02	RL128483	C (c-of-owner)	P
01/31/05	RE210948	C (c-of-owner)	P
01/02/07	TE239455	C (c-of-owner)	P

History of VIN 1FDHS34G8KHC27510,
CA Plate 2RCN713, a 1989 Ford 350 Econoline,
with 100,225 Miles, Reported Smoking on 01/26/07

01/18/00	RK207625	C (c-of-owner)	P
09/07/01	TC204076	B (biennial)	G
09/08/01	TC204076	B (biennial)	P
07/25/03	RG200653	B (biennial)	P
11/21/05	TG200653	C (c-of-owner)	F
11/21/05	TG200653	C (c-of-owner)	P
01/26/07	TK207917	C (c-of-owner)	A
01/26/07	TK207917	C (c-of-owner)	P

History of VIN 2HGEJ2126RH530210,
CA Plate 3HHY208, a 1994 Honda Civic,
with 420,009 Miles, Reported Smoking on 03/08/07

03/16/98	RE194795	B (biennial)	P
05/15/00	RD014076	C (c-of-owner)	P
11/02/00	RD014076	C (c-of-owner)	P
02/25/03	RM219264	B (biennial)	P
03/04/05	TB182534	P (directed)	F
03/07/05	RA151255	Q (pretest)	P
03/07/05	TB182534	P (directed)	P
03/08/07	TC246670	P (directed)	G

Owners of Smokers Compared to Other Households in L.A. Owning a 1976-2000 Model-Year Vehicle

	Others	Smokers
Households in 90001-90999	1,431,467	903
% with only 1 vehicle	54.93	49.50
% with 2 vehicles	24.25	22.04
% with 3 vehicles	11.39	12.74
% with more than 1 1976- 2000 model years	26.45	41.09
% with at least 1 2001 and newer vehicle	27.35	22.81

Conclusions

- “Smokers” have higher than typical fail rates on Smog Check, but seemingly not far above the rates expected for the age and mileage of the vehicles
- Smokers have histories of more and worse fails, but seemingly not far above the patterns given the age and mileage of the vehicles
- Some smokers have not had recent Smog Checks
- Some smokers are being reported even as they are passing Smog Check